

Serial Number: 09/975,063CRF Processing Date: 11/6/2001
Edited by: A
Verified by: A (STIC stat)**ENTERED** Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: .. Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/username at end of file; page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____ Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING DATE: 11/06/2001
PATENT APPLICATION: US/09/975,063 TIME: 08:01:49

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I975063.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: POWELL, Jerry S.

8 (ii) TITLE OF INVENTION: HUMAN ERYTHROPOIETIN GENE: HIGH LEVEL
9 EXPRESSION IN STABLY TRANSFECTED MAMMALIAN CELLS

11 (iii) NUMBER OF SEQUENCES: 6

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Dorsey & Whitney, LLP

15 (B) STREET: Suite 3400, 1420 Fifth Avenue, U.S. Bank Centre

16 (C) CITY: Seattle

17 (D) STATE: Washington

18 (E) COUNTRY: USA

19 (F) ZIP: 98101

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: WordPerfect 6/7/8

27 (vi) CURRENT APPLICATION DATA:

32 (A) APPLICATION NUMBER: US/09/975,063

33 (B) FILING DATE: 10-Oct-2001

35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: Roberts, Mark W..

37 (B) REGISTRATION NUMBER: 46,160

38 (C) REFERENCE/DOCKET NUMBER: 500582.03 (112893.109)

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 206-903-8728

42 (B) TELEFAX: 206-903-8820

45 (2) INFORMATION FOR SEQ ID NO: 1:

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 2426 base pairs

49 (B) TYPE: nucleic acid

50 (C) STRANDEDNESS: single

51 (D) TOPOLOGY: linear

53 (ii) MOLECULE TYPE: DNA (genomic)

58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

60	CCCGGTGTGG TCACCCGGCG CGCCCCAGGT CGCTGAGGGA CCCCGGCCAG GCGCGGAGAT	60
62	GGGGGTGCAC GGTGAGTACT CGCAGGGCTGG GCGCTCCCGC CCGCCCCGGGT CCCTGTTTGA	120
64	GGGGGGATTT AGCGCCCCGG CTATTGGCCA GGAGGTGGCT GGGTTCAAGG ACCGGCGACT	180
66	TGTCAAGGAC CCCGGAAGGG GGAGGGGGGT GGGGCAGCCT CCACGTGCCA GCGGGGACTT	240
68	GGGGGAGTCC TTGGGGATGG CAAAAACCTG ACCTGTGAAG GGGACACAGT TTGGGGGTTG	300
70	AGGGGAAGAA GGTTTGGGGG GTTCTGCTGT GCCAGTGGAG AGGAAGCTGA TAAGCTGATA	360
72	ACCTGGGCGC TGGAGGCCACC ACTTATCTGC CAGAGGGGAA GCCTCTGTCA CACCAGGATT	420
74	GAAGTTGGC CGGAGAAAGTG GATGCTGGTA GCCTGGGGGT GGGGTGTGCA CACGGCAGCA	480
76	GGATTGAATG AAGGCCAGGG AGGCAGCACC TGAGTGTCTTG CATGGTTGGG GACAGGAAGG	540
78	ACGAGCTGGG GCAGAGACGT GGGGATGAAG GAAGCTGTCC TTCCACAGCC ACCCTTCCTCC	600
80	CTCCCCGCCT GACTCTCAGC CTGGCTATCT GTTCTAGAAT GTCTGCCTG GCTGTGGCTT	660

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,063

DATE: 11/06/2001
TIME: 08:01:49

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I975063.raw

82	CTCCTGTCCC	TGCTGTCGCT	CCCTCTGGGC	CTCCCAAGTCC	TGGGCGCCCC	ACCACGCC	720
84	ATCTGTGACA	GCCGAGTCCT	GCAGAGGTAC	CTCTTGGAGG	CCAAGAAGGC	CGAGAAATAC	780
86	ACGGTGAGAC	CCCTTCCCCA	GCACATTCCA	CAGAACTCAC	GCTCAGGGCT	TCAGGGA	840
88	CCTCCCAGAT	CCAGGAACCT	GGCACTTGGT	TTGGGGTGGG	GTTGGGAAGC	TAGACACTGC	900
90	CCCCCTACAT	AAGAATAAGT	CTGGTGGCCC	CAAACCATA	CTGAAAC	GGCAAGGAGC	960
92	AAAGGCCAGCA	GATCCTACGC	CTGTGGCCAG	GGCCAGAGCC	TTCAGGGACC	CTTGACTCCC	1020
94	CGGGCTGTGT	GCATTTCA	CGGGCTGTGC	TGAACACTGC	AGCTTGAATG	AGAATATCAC	1080
96	TGTCCCAGAC	ACCAAAGTTA	ATTCTATGC	CTGGAAGAGG	ATGGAGGTGA	GTTCC	1140
98	TTTTTTTTT	CCTTCTTTT	GGAGAACTC	ATTGCGAGC	CTGATTTGG	ATGAAAGGGA	1200
100	GAATGATCGA	GGGAAGGTA	AAATGGAGCA	GCAGAGATGA	GGCTGCCTGG	GCGCAGAGGC	1260
102	TCACGTCTAT	ATTCAGGC	TGAGATGGCC	GAGATGGGAG	AATTGCTTGA	GCCCCGGAGT	1320
104	TTCAGACAA	CCTAGGCAGC	ATAGTGAGAT	CCCCCATCTC	TACAAACATT	AAAAAAAATT	1380
106	AGTCAGGTGA	AGTGGTGCAT	GGTGGTAGTC	CCAGATATT	GGAAGGCTGA	GGCGGGAGGA	1440
108	TCGCTGGAGC	CCAGGAATT	GAGGCTGCAG	TGAGCTGTGA	TCACACC	GAAC	1500
110	CTCAGTGACA	GAGTGGGCC	CTGTC	AAAGAAAAGA	AAAAAGAAAA	ATAATGAGGG	1560
112	CTGTATGGAA	TACGTTCA	ATTCA	TCACTCA	ACTCATC	TCATTCA	1620
114	ATTCAACAAG	TCTTATTGCA	TACCTCTG	TTGCTCAGCT	TGGTGC	TGG	1680
116	GGGCAGGAGG	GAGAGGTGA	CATCCCTCAG	CTGACTCCC	GAGTCC	ACTC	1740
118	GGGCAGCAGG	CGT	AAAGTGAAGT	CTGGCAGGGC	CTGGCC	CTG	1800
120	GGCCAGGCC	TGTTGGTGA	CTCTTCCCAG	CCGTGGGAGC	CCCTG	CAGCT	1860
122	AAAGCCGTCA	GTGGCCTTC	CAGCC	TACC	ACTCTGCT	GGGCTCTGGG	1920
124	AGTAGGAGCG	GACACTTCTG	CTTGC	CTT	CTGTAAGA	GGGAGAAGG	1980
126	GAGTACAGGA	ACTGTCG	TTCC	TTCTG	GGC	CTG	2040
128	CTCCTTGGCA	GAAGGAAGCC	ATCTCCC	CAGATGCG	CTCAG	CTG	2100
130	CAATCA	TGACACTT	CGC	AAACTC	TCCGAGT	CTCCA	2160
132	AGCTGAAGCT	GTACACAGG	GAGG	CCTG	GA	CAGGGGA	2220
134	CCTGGCATA	TCCACCAC	CCCT	CACCAA	CATTG	TTGT	2280
136	TCCTGAACCC	CGTCGAGGGG	CTCTCAG	CTC	AGCGCC	CAGC	2340
138	GCCACCAATG	ACATCTCAGG	GGCC	CAGAGG	ACTGTCC	CAGA	2400
140	GATGTCACAG	GGCCA	ACTT	GG	GAG	GA	2426

142 (2) INFORMATION FOR SEQ ID NO: 2:

144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 30 amino acids
146 (B) TYPE: amino acid
147 (C) STRANDEDNESS: single
148 (D) TOPOLOGY: linear

150 (ii) MOLECULE TYPE: peptide
155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

W--> 157 Ala Pro Xaa Arg Leu Ile Leu Asp Ser Arg Val Leu Glu Arg Tyr Leu
158 1 5 10 15

W--> 160 Leu Glu Ala Lys Glu Ala Glu Xaa Ile Thr Asp Gly Gly Ala
161 20 25 30

163 (2) INFORMATION FOR SEQ ID NO: 3:

165 (i) SEQUENCE CHARACTERISTICS:
166 (A) LENGTH: 7 amino acids
167 (B) TYPE: amino acid
168 (C) STRANDEDNESS: single
169 (D) TOPOLOGY: linear

171 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,063

DATE: 11/06/2001
TIME: 08:01:49

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I975063.raw

176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
178 Glu Ala Lys Glu Ala Glu Asn
179 1 5
181 (2) INFORMATION FOR SEQ ID NO: 4:
183 (i) SEQUENCE CHARACTERISTICS:
184 (A) LENGTH: 20 base pairs
185 (B) TYPE: nucleic acid
186 (C) STRANDEDNESS: single
187 (D) TOPOLOGY: linear
189 (ii) MOLECULE TYPE: DNA (genomic)
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
196 TTYTCDGCYT CYTTDGCTTC 20
198 (2) INFORMATION FOR SEQ ID NO: 5:
200 (i) SEQUENCE CHARACTERISTICS:
201 (A) LENGTH: 6 amino acids
202 (B) TYPE: amino acid
203 (C) STRANDEDNESS: single
204 (D) TOPOLOGY: linear
206 (ii) MOLECULE TYPE: peptide
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
213 Glu Asn Ile Thr Asp Gly
214 1 5
216 (2) INFORMATION FOR SEQ ID NO: 6:
218 (i) SEQUENCE CHARACTERISTICS:
219 (A) LENGTH: 23 base pairs
220 (B) TYPE: nucleic acid
221 (C) STRANDEDNESS: single
222 (D) TOPOLOGY: linear
224 (ii) MOLECULE TYPE: DNA (genomic)
229 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
231 AGCTCCTCCA TCAGTATTAT TTY 23

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/975,063

DATE: 11/06/2001

TIME: 08:01:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\I975063.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2